

**PICTURE OF ITEM(S)**



Picture is not actual size. The color of the item(s) and the color of the picture may be different.

**DETAIL**



**ALGT COLORED STONE IDENTIFICATION REPORT**

**IDENTIFICATION**

Species ..... Natural Beryl  
 Variety ..... Emerald and Emerald in Matrix

**DESCRIPTION**

Shape & Cutting Style ..... Irregular (Rough)  
 Total Grams Weight ..... 6019 Grams  
 Color ..... Light Green to Dark Green  
 Transparency ..... Translucent - Opaque

**ADDITIONAL GRADING CHARACTERISTICS**

Origin ..... Brazil  
 Origin determination is an expert opinion based on microscopic examination, spectroscopic features and chemical trace element analysis.

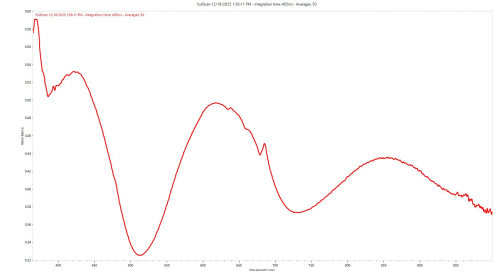
**COMMENTS**

Bag number : 2.3.  
 Size : Melee and Small with some Medium size  
 Commercial Quality, most stones with matrix (host rock)  
 Few near-gem quality stones present in small sizes  
 Weight is approximate (+/- 1 g), and includes the plastic bag

**MAIN PROPERTIES OF EMERALD**

Chemical Composition .....  $Be_3Al_2(SiO_3)_6$   
 Crystal System ..... Hexagonal  
 Mohs Hardness ..... 7.5 - 8.0  
 Specific Gravity ..... 2.62 - 2.80 g/cm<sup>3</sup>  
 Optical Character ..... Uniaxial-  
 Refractive Index ..... 1.560 - 1.602  
 Birefringence ..... 0.004 - 0.010

**UV-VIS-NIR SPECTRUM**



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